INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39314

CLA COLFIGATION OF GUID TO CTACA TO THE COLFE OF THE COLF						
A. CLASSIFICATION OF SUBJECT MATTER IPC(8) : C12N 5/02						
US CL : 435/325,374						
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED						
	· · · · · · · · · · · · · · · · · · ·					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/325,374						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a			Relevant to claim No.		
Y	ANNUAL REPORT, 2003 (pages 1-132), NATION ADMINISTRATION (NASA), Physical Science Reshttp.//spaceresearch.nasa gov), especially Chapter 4 Program Summary & Cellular Biotechnology Flight	srarch Div , page 16,	ision (at Cellular Biotechnology	1-10, 28-30		
х Y	LAKEY, J R.T. et al. Novel approaches to cryopreservation of human pancreatic Islets. Transplantation. 27 September 2001, Vol. 72, No. 6, pages 1005-1011, entire document.			1-4		
Υ .				5-10, 28-30		
Y	US 5,964,261 A (NEUENFELDT et al) 12 October 1999 (12.10.1999), abstract, Summary of the Invetnion, column 4-6, and example 4			1-10, 28-30		
Y	US 5,863,715 A (RAJOTTE et al) 26 January 1999	(26.01.19	99), abstract, Fig. I, Summary	1-4, 7 and 28-30		
A	of the invention, columns 6-8, examples 1-8. US 5,679,565 A (MULLEN et al) 2 1 October 1997 (21.10.1997), abstract, Summary of the invention.			1-10, 28-30		
A	US 5,827,741A (BEATTIE et al) 27 October 1998 (27.10.1998), abstract, summary of the invention.			1-4, 7 and 28-30		
Α	NAUGHTON G.K. From lab bentch to market: Crit N.Y. Acad Sci 2002, Vol 961, pages 372-385, enti			1-10, 28-30		
Further	documents are listed in the continuation of Box C.		See patent family annex.			
* Special categories of cited documents "T" later document published after the international filing date and not in conflict with the application but cited to underst document defining the general state of the art which is not considered to be of principle or theory underlying the invention			ut cited to understand the			
E " earlier application or patent published on or after the international filing date considered no		document of particular relevance, the cla considered novel or cannot be considered when the document is taken alone				
"L" document which may throw doubts on ρπ υπτη claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y"				
"O" document	referring to an oral disclosure, use, exhibition or other means		to a person skilled in the art	sach combination being obvious		
"P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family						
Date of the actual completion of the international search 29 December 2005 (29.12.2005) Date of mailing of the international search report						
Name and mailing address of the ISA/US Authorized Quality Authorized						
Mail Stop PCT, Atta: ISA/US Commissioner for Patents P.O. Box 1450 Sattendra X Singh						
Alex	Alexandria, Virginia 223 13-1450 Facsimile No. (571) 273-3201 Telephone No. 571-272-8790					
Form PCT/ISA/210 (second sheet) (April 2005)						

INTERNATIONAL SEARCH REPORT

International application No

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Box No. π Observations where certain claims were found unsearchable (Continuation of item 2 of first she				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons				
\	Claims Nos because they relate to subject matter not required to be searched by this Authority, namely			
2 🗀	Claims Nos because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be earned out, specifically			
3	Claims Nos 11-27 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6 4(a)			
Box No. Ill	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows				
1	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos			
4	No required additional search fees were timely paid by the applicant Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos			
Remark on I	payment of a protest fee			
	The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation			
	No protest accompanied the payment of additional search fees			

Form PCT/ISA/21Q (continuation of first sheet(2)) (April 2005)

INTERNATIONAL SEARCH REPORT	International application No. PCT/US04/39314
Continuation of B. FIELDS SEARCHED Item 3: EAST: USPAT, PG-PUB, USOCR, JPO, EPO, DERWENT STN: (STIC-SEARCHED)- REGISTRY, ZCAPLUS, HCAPLUS, WPIX, MEDLINE, EMBASE, BIOSIS, BIOEI CONF, CONFSCI, CANCERLIT, CABA, DISSABS	NG, BIOTECHNO, BIOTECHDS, SCISEARCH,
SEARCH STRATEGIES: cryopreserv? or cryoprotect? dmso, cell culture; device or vessel, cryopreserv? and valves, filter, medium, diaphragm, sensor, device, islets, transplantation, dmso, mems, cryopreserv?; culture, vessel or device, gas, valves, capsul?, absorbet? filter,	